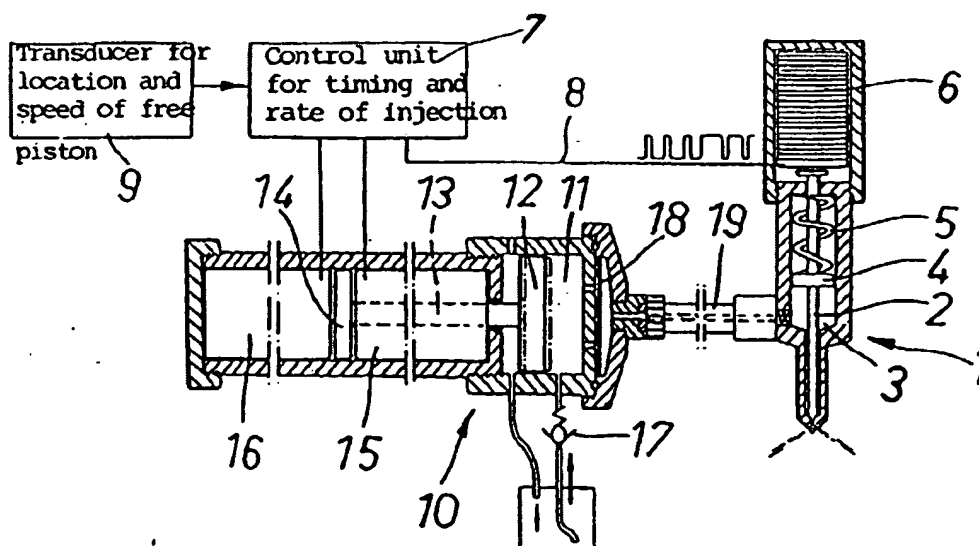


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(54) Title: METHOD AND APPARATUS FOR CONTROLLING THE INJECTION OF FUEL



(57) Abstract

The invention relates to a method and apparatus for controlling the injection of diesel fuel. The opening of a needle (2) included in an injection nozzle (1) is subjected to a mechanical action by a piezoelectric actuator (6). Thus, the timing and rate adjustment of injection can be controlled by means of electronics (7), which delivers electrical control pulses to the actuator (6). The invention can be applied in a free-piston engine whose operation is controlled by adjusting the timing and rate of fuel injection.